

WHAT IS CLAIMED IS:

1. An apparatus comprising:  
5 a scintillator to emit light;  
imaging elements to capture image information based on received  
light; and  
an optical filter disposed between the scintillator and the imaging  
elements,  
10 wherein an opacity of the optical filter is controllable.
2. An apparatus according to Claim 1,  
wherein the imaging elements comprise a plurality of charge-  
coupled devices.  
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3. An apparatus according to Claim 1,  
wherein the imaging elements comprise a plurality of photodiodes.
4. An apparatus according to Claim 1, further comprising:  
20 a control to control an opacity of the optical filter.
5. An apparatus according to Claim 1, the scintillator to receive X-  
rays and to emit light based on the received X-rays.
- 25 6. An apparatus according to Claim 5, the optical filter to receive at  
least a portion of light emitted by the scintillator.
7. An apparatus according to Claim 1, further comprising:  
a linear accelerator to emit X-rays.  
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8. An apparatus according to Claim 1, the optical filter comprising a  
plurality of optical filters.

9. An apparatus according to Claim 8, wherein one or more of the plurality of optical filters is movable from a first position between the scintillator and the imaging elements to a second position that is not  
5 between the scintillator and the imaging elements.

10. An apparatus comprising:  
a scintillator to emit light;  
imaging elements to capture image information based on received  
10 light; and  
an optical filter controllably movable from a first position between the scintillator and the imaging elements to a second position not between the scintillator and the imaging elements.

15 11. An apparatus according to Claim 10,  
wherein the imaging elements comprise a plurality of charge-coupled devices.

20 12. An apparatus according to Claim 10,  
wherein the imaging elements comprise a plurality of photodiodes.

13. An apparatus according to Claim 10, wherein an opacity of the optical filter is controllable.

25 14. An apparatus according to Claim 13, further comprising:  
a control to control an opacity of the optical filter.

15. An apparatus according to Claim 10, further comprising:  
a control to move the optical filter from the first position to the  
30 second position.

16. An apparatus according to Claim 10, the scintillator to receive X-rays and to emit light based on the received X-rays.

5 17. An apparatus according to Claim 16, the optical filter to receive at least a portion of light emitted by the scintillator in a case that the optical filter is located at the first position.

10 18. An apparatus according to Claim 10, further comprising:  
a linear accelerator to emit X-rays.

19. An apparatus according to Claim 10, further comprising:  
a second optical filter controllably movable from a third position  
between the scintillator and the imaging elements to a fourth position not  
between the scintillator and the imaging elements.

15 20. A method comprising:  
determining a radiation dose; and  
controlling an amount of light to be received by imaging elements  
based on the determined dose.

20 21. A method according to Claim 20, wherein controlling the  
amount of light comprises:  
controlling the opacity of an optical filter disposed between a  
scintillator and the imaging elements.

25 22. A method according to Claim 20, wherein controlling the  
amount of light comprises:  
moving an optical filter to a position between a scintillator and the  
imaging elements.

30 23. A computer-readable medium storing processor-executable  
process steps, the process steps comprising:

a step to determine a radiation dose; and  
a step to control an amount of light to be received by imaging elements based on the determined dose.

5            24. A medium according to Claim 23, wherein the step to control the amount of light comprises:

a step to control the opacity of an optical filter disposed between a scintillator and the imaging elements.

10           25. A medium according to Claim 23, wherein the step to control the amount of light comprises:

a step to move an optical filter to a position between a scintillator and the imaging elements.

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